

SYSTEM, METHOD, AND COMPUTER-READABLE MEDIUM FOR REDUCTION OF COMMUTATION-RELATED ACOUSTIC NOISE IN A FAN SYSTEM

ABSTRACT OF THE INVENTION

A method for reducing commutation-related acoustic noise in a fan system is provided. A constant frequency periodic signal is generated and a fan commutation event is synchronized with a zero level value of the constant frequency periodic signal. A system for controlling a direct current fan is provided. The system comprises a signal generator adapted to produce a periodic signal of a constant frequency and a phase-locked loop. A zero level value of the periodic signal is synchronized with a commutation event of the fan.